

Figure 1(a)

		1	90
J96	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGTCGTGAATGTG	
EC45	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCAATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCTGCCGTGAATGTG	
B217	(1)	TTGCGCTGTAAAAACCGCCAATGGTACAGCTATCCCTATTGGCGGTGGAGCGCTAATGTTTATGTATAAACCTTTGGCGCTGCCGTGAATGTG	
DS17	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCAATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCTGCCGTGAATGTG	
B212	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCTGCCGTGAATGTG	
EC42	(1)	TTGCGCTGTAAAAACCGCCAATGGCACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGCCGTGAATGTG	
EC56	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGTCGTGAATGTG	
B210	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGTCGTGAATGTG	
B203	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCAATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCTGCCGTGAATGTG	
EC58	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCAATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCTGCCGTGAATGTG	
EC60	(1)	TTGCGCTGTAAAAACCGCCAATGGCACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGCCGTGAATGTG	
EC61	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGCCGTGAATGTG	
EC80	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGTCGTGAATGTG	
EC95	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCAATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCTGCCGTGAATGTG	
EC62	(1)	ATCGCCTGTAAAAACCGCCAATGGCACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGCCGTGAATGTG	
B238	(1)	TTGCGCTGTAAAAACCGCCAATGGCACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGCCGTGAATGTG	
B240	(1)	TTGCGCTGTAAAAACCGCCAATGGTACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGTCGTGAATGTG	
B242	(1)	TTTGGCCTGTAAAAACCGCCAATGGCACCGCTATCCCTATTGGCGGTGGAGCGCCAATGTTTATGTATAAACCTTTGGCGCCCGCCGTGAATGTG	
EC189	(1)	TTGCGCCTGTAAAAACCGCCAATGGTACCGCTATCCCTATTGGCGGTGGAGCGCTAATGTTTATGTATAAACCTTTGGCGCTGCCGTGAATGTG	

Figure 1(b)

J96	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAATTACAGACTATGTCACTGCAACCGA	180
EC45	(91)	GGGCAAAAACCTGGTCGTAGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTACCCAGAAACCAITTAAGACTATGTCACTGCAACCGA	
B217	(91)	GGGCAAAAACCTGGTCGTAGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
DS17	(91)	GGGCAAAAACCTGGTCGTAGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
B212	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
EC42	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
EC56	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
B210	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
B203	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
EC58	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
EC60	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
EC61	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
EC80	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
EC95	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
EC62	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
B238	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
B240	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
B242	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	
EC189	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCGAAATCTTTTGGCCATAACGATTTATCCGGAACCAITTAAGACTATGTCACTGCAACCGA	

Figure 1(c)

181
 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 J96 (181) GGCTCGGCTTATGGCGGCGTGTATCTAGTTTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 EC45 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCGACACCGAGCGAAACG
 B217 (181) GGCTCGGCTTATGGCGGCGTGTATCTAGTTTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 DS17 (181) GGCTCGGCTTATGGCGGCGTGTATCTAGTTTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 B212 (181) GGCTCGGCTTATGGCGGCGTGTATCTAGTTTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCGACACCGAGCGAAACG
 EC42 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 EC56 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 B210 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 B203 (181) GGCTCGGCTTATGGCGGCGTGTATCTAGTTTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 EC58 (181) GGCTCGGCTTATGGCAGCGTGTATCTAGTTTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCGACACCGAGCGAAACG
 EC60 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 EC61 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 EC80 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 EC95 (181) GGCTCGGCTTATGGCGGCGTGTATCTAGTTTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 EC62 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 B238 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCGACACCGAGCGAAACG
 B240 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCCTACACCGAGCGAAACG
 B242 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCGACTACCGAGCGAAACG
 EC189 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATATAGTGGCAGTAGCTATCCATTTCCGACACCGAGCGAAACG

Figure 1(d)

J96	(271)	CCGCGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	360
EC45	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
B217	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
DS17	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
B212	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
EC42	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
EC56	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
B210	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
B203	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
EC58	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
EC60	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
EC61	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
EC80	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
EC95	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
EC62	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
B238	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
B240	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
B242	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	
EC189	(271)	CGCGGGTTGTTTATAAATTCGAGAACGGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC	

Figure 1(e)

361 450

J96 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC45 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
B217 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
DS17 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
B212 (361) AAAGCAGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC42 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC56 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
B210 (361) AAAGCAGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
B203 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC58 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC60 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC61 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC80 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC95 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC62 (361) AAGGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
B238 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
B240 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
B242 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC
EC189 (361) AAAGCTGGCTCATTTAAATTTGCCGTGCTTAATTTTGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAAATATTTACGCC

Figure 1(f)

J96	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	540
EC45	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
B217	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
DS17	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
B212	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
EC42	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
EC56	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
B210	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
B203	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
EC58	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
EC60	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
EC61	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
EC80	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
EC95	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
EC62	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
B238	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
B240	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
B242	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	
EC189	(451)	AATAATGATGTGGTGGTGCCTACTGCGCGCTCGCATGTTTCTGCTCGTGAATGTCA	

Figure 1(g)

		541	630
J96	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC45	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
B217	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
DS17	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
B212	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC42	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC56	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
B210	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
B203	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC58	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC60	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC61	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC80	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC95	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC62	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
B238	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
B240	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
B242	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	
EC189	(541)	ATTCTCTTACCGTTTATTGTGCGAAAAGCCAAAACCTGGGGTATTACCTCTCCGGCAACAACCGCAGATCGGGCAACTCGATTTTCACC	

Figure 1(h)

J96 (631) AATAACCGCGTCGTTTTCACCTGCAACAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC45 (631) AATAACCGCGTCGTTTTCACCCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 B217 (631) AATAACCGCGTCGTTTTCACACGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCACGAAATAACACGGTATCGTTA
 DS17 (631) AATAACCGCGTCGTTTTCACCCGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 B212 (631) AATAACCGCGTCGTTTTCACCCGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC42 (631) AATAACCGCGTCGTTTTCACCTTGCAACAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC56 (631) AATAACCGCGTCGTTTTCACCTTGCAACAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 B210 (631) AATAACCGCGTCGTTTTCACCCGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 B203 (631) AATAACCGCGTCGTTTTCACCCGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC58 (631) AATAACCGCGTCGTTTTCACCCGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC60 (631) AATAACCGCGTCGTTTTCACCTTGCAACAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC61 (631) AATAACCGCGTCGTTTTCACCTTGCAACAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC80 (631) AATAACCGCGTCGTTTTCACCTTGCAACAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC95 (631) AATAACCGCGTCGTTTTCACCCGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC62 (631) AATAACCGCGTCGTTTTCACCTTGCAACAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 B238 (631) AATAACCGCGTCGTTTTCACCTTGCAACAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 B240 (631) AATAACCGCGTCGTTTTCACCTTGCAACAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 B242 (631) AATAACCGCGTCGTTTTCACCCGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA
 EC189 (631) AATAACCGCGTCGTTTTCACCCGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGAATAACACGGTATCGTTA

720

Figure 1(i)

J96	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTATGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	810
EC45	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
B217	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
DS17	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
B212	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
EC42	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
EC56	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTATGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
B210	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
B203	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
EC58	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
EC60	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
EC61	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTATGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
EC80	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTATGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
EC95	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
EC62	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
B238	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
B240	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
B242	(721)	GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGAGGGCAGGTGACTGCAGGGAAATGTGCAATCG	
EC189	(721)	GGAAACAGTAGGAACTTTCGGCGGTGAGTCTGGGATTAAACGGCAAATTTACGCACGTACCGGCGGGCAGGTGACTGCAGGGAAATGTGCAATCG	

Figure 1(j)

		811		837
J96	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC45	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
B217	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
DS17	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
B212	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC42	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC56	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
B210	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
B203	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC58	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC60	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC61	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC80	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC95	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC62	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
B238	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
B240	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
B242	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		
EC189	(811)	ATTATTGGCGTGACTTTTGTGTTATCAA		

Figure 2(a)

	1	50
B210.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
B212.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
B217.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
B223.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
B228.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
B238.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAI AVNVGQNLVVDLSTQIFCHNDYPE
B240.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
B242.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQTFCHNDYPE
DS17.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC42.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC45.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC56.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
EC58.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC60.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
EC61.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC62.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC80.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC89.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC95.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
G189.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
J96.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
NU14.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
Consensus	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
	51	100
B210.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGIVKYSGSSYPFPTTSETPRVVYNSRTD
B212.aa	(51)	TITDYVTLQRGSAYGGVLSFSFGIVKYNSSYPFPTTSETPRVVYNSRTD
B217.aa	(51)	TITDYVTLQRGAAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
B223.aa	(51)	TITDYVTLQRGAAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
B228.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
B238.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
B240.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
B242.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
DS17.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYNSSYPFPTTSETPRVVYNSRTD
EC42.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
EC45.aa	(51)	TITDYVTLQRGAAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
EC56.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
EC58.aa	(51)	TITDYVTLQRGSAYGSVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
EC60.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
EC61.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKEYSGSSYPFPTTSETPRVVYNSRTD
EC62.aa	(51)	TITDYVTLQRGSAYGGVLSHFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
EC80.aa	(51)	TITDYVTLQRGSAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
EC89.aa	(51)	TITDYVTLQRGSAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
EC95.aa	(51)	TITDYVTLQRGSAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
G189.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
J96.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
NU14.aa	(51)	TITDYVTLQRGAAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
Consensus	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD

Figure 2 (b)

		101	150
B210.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
B212.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
B217.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
B223.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
B228.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
B238.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
B240.aa	(101)	KPWPVALYLTPVSSAGGLVIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
B242.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
DS17.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC42.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC45.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC56.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC58.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC60.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC61.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC62.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC80.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC89.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
EC95.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
G189.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
J96.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
NU14.aa	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	
Consensus	(101)	KPWPVALYLTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA	

		151	200
B210.aa	(151)	NNDVVVPTGGCDASARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
B212.aa	(151)	NNDVVVPTGGCDASARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
B217.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
B223.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
B228.aa	(151)	NNDVVVPTGGCDVSAHDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
B238.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
B240.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
B242.aa	(151)	NNDVVVPTGGCDVSAHDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
DS17.aa	(151)	NNDVVVPTGGCDASARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
EC42.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYPGSVPIPLTVYCAKSQNLGYLLSGT	
EC45.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYPGSVPIPLTVYCAKSQNLGYLLSGT	
EC56.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYPGSVPIPLTVYCAKSQNLGYLLSGT	
EC58.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
EC60.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
EC61.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
EC62.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
EC80.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
EC89.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
EC95.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
G189.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
J96.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYPGSVPIPLTVYCAKSQNLGYLLSGT	
NU14.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	
Consensus	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT	

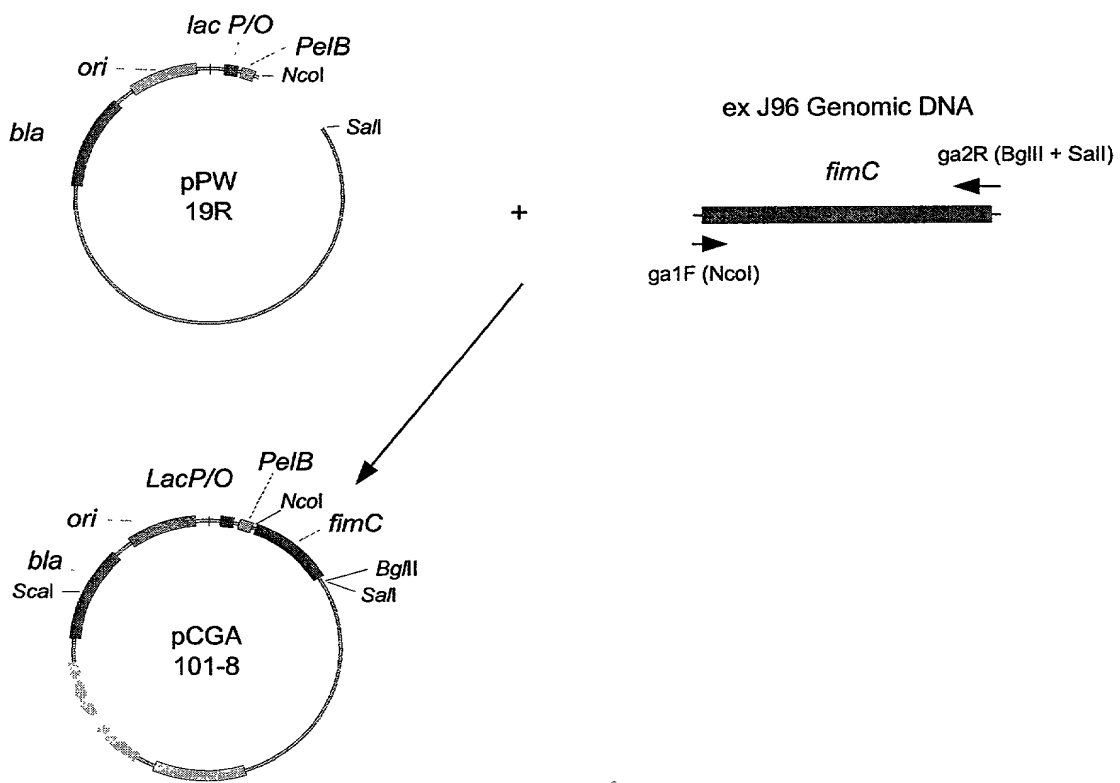
Figure 2(c)

		201	250
B210.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLARNGTVIPANNTVSLGAVGTSAVSL	
B212.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
B217.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
B223.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
B228.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
B238.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
B240.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
B242.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
DS17.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
EC42.aa	(201)	TADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
EC45.aa	(201)	TADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
EC56.aa	(201)	TADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
EC58.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
EC60.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
EC61.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
EC62.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
EC80.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTANGTIVPANNTVSLGAVGTSAVSL	
EC89.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTANGTIVPANNTVSLGAVGTSAVSL	
EC95.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
G189.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
J96.aa	(201)	TADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
NU14.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	
Consensus	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPANNTVSLGAVGTSAVSL	

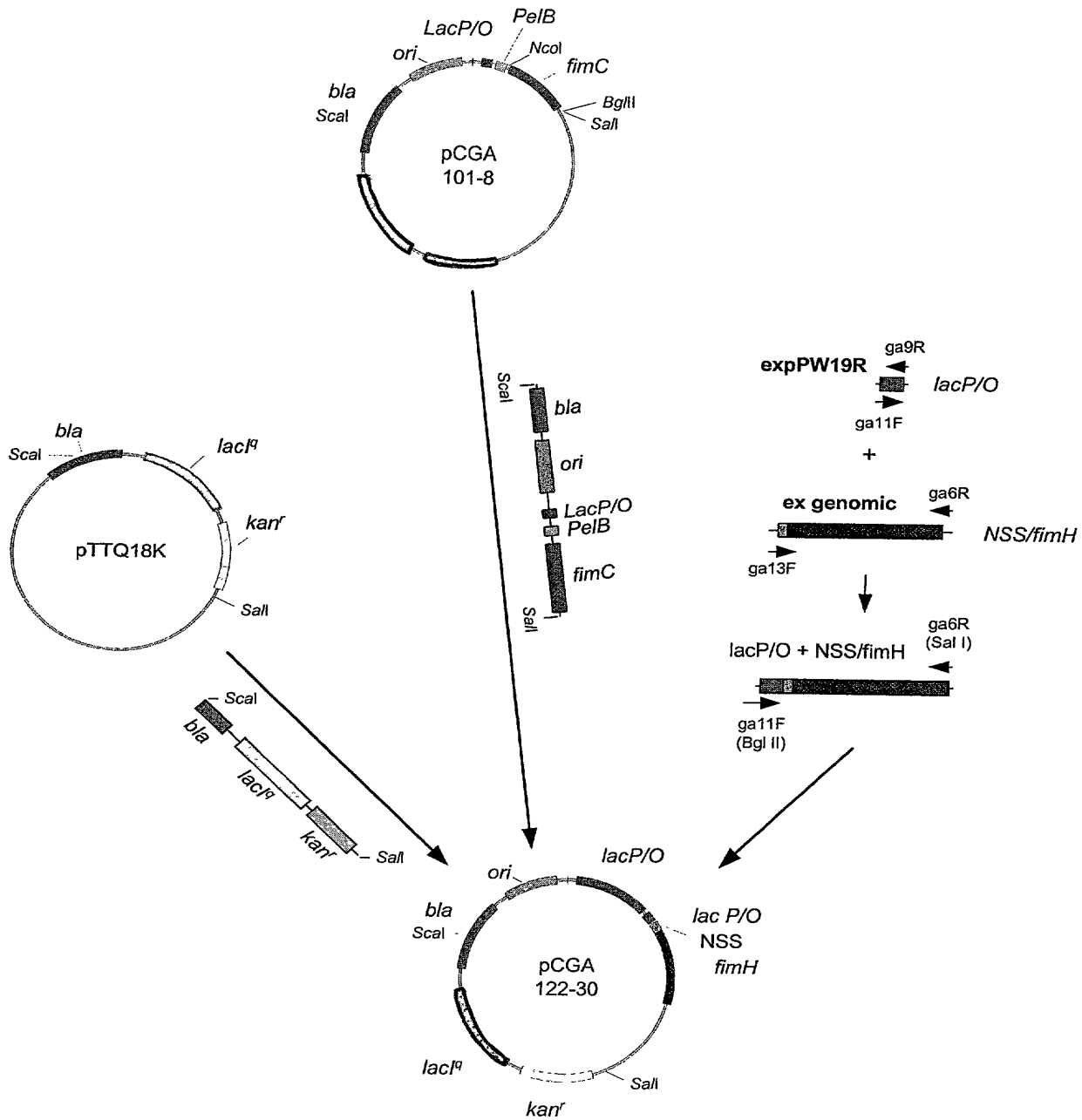
		251	279
B210.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B212.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B217.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B223.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B228.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B238.aa	(251)	GLTANYARTGGQVTAGNVQSIIGATFVYQ	
B240.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B242.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
DS17.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC42.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC45.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC56.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC58.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC60.aa	(251)	GLTANYARTGGQVTAGNVRSIIAVTFVYQ	
EC61.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC62.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC80.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC89.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC95.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
G189.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
J96.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
NU14.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
Consensus	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	

Fig. 3

Step1: Construction of pCGA101-8



Step 2: Construction of pCGA122-30



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Fig 5.

Step 3: Selection of final clone

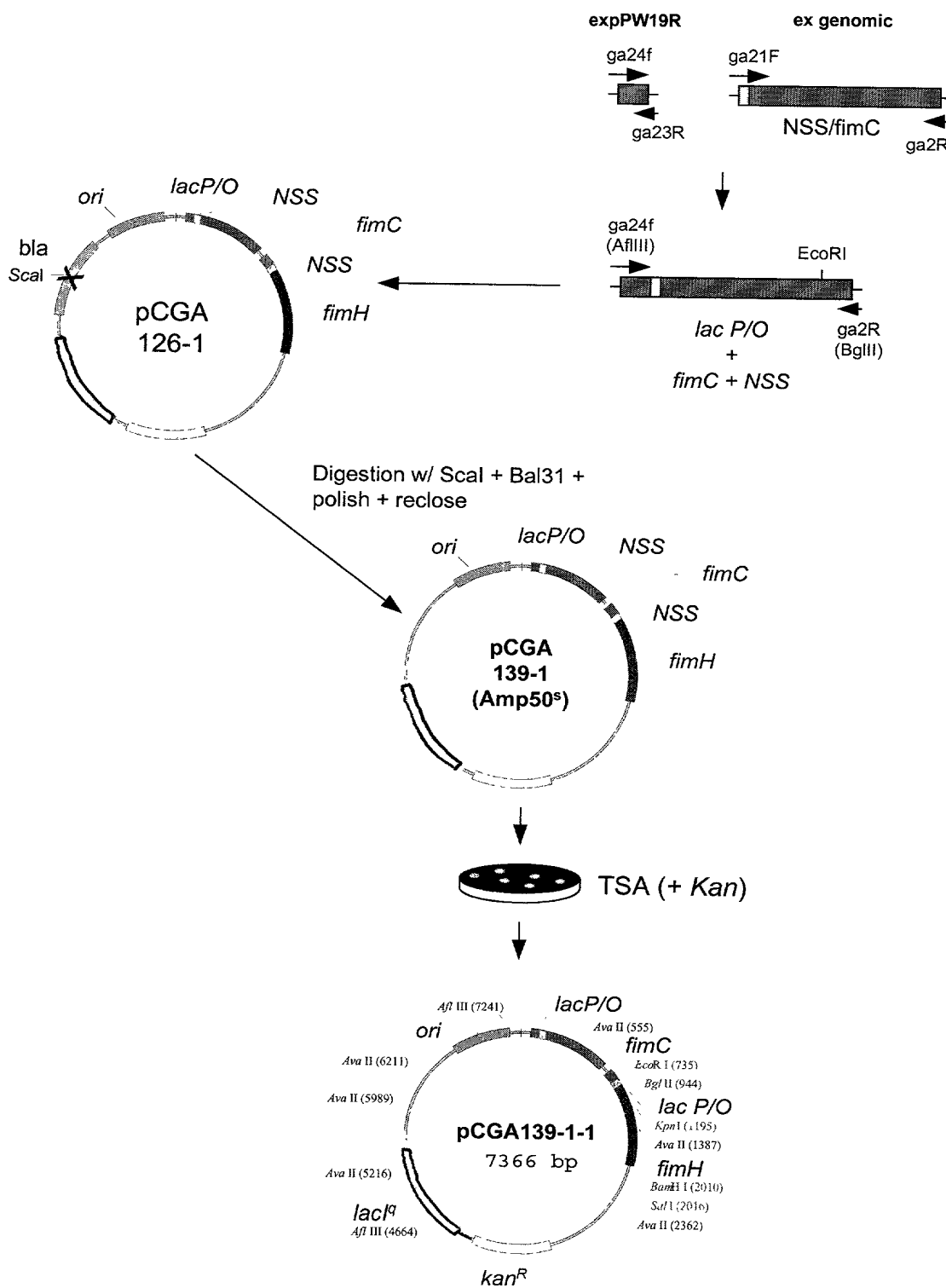


Fig. 6

